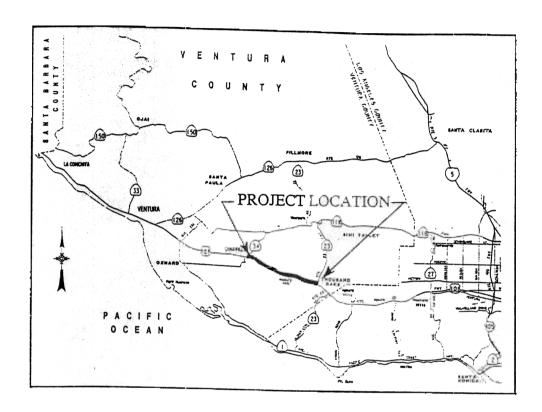
## PROJECT STUDY REPORT



On Route VEN-101 (Ventura Freeway), between VEN-23 and VEN-34 (Lewis Road)

I have reviewed the right of way information contained in this Project Report and the RW Data Sheet attached hereto, and find the data to be complete, current, and accurate.

Approval Recommended:

DAREK CHMIELEWSKI, Project Manager Office of Project Management – South

Approved:

DOUGLAS R. FAILING District Director – District 7

9/30/05

ANDREW NIERENBERG
Right of Way Project Delivery Manager

Concurred:

FRANK L. QUON

District Deputy Director-Operations

for

WILLIAM H. REAGAN

District Deputy Director-Design

#### REGISTERED ENGINEER'S CERTIFICATIONS

This Project Study Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained therein and is judging qualifications of any technical specialist providing engineering data upon which recommendations, conclusions, and decisions are based.



#### I INTRODUCTION

It is proposed to construct a Traffic Congestion Relief Management System (TCRMS), Consisting of the installation of a fiber optic communications system, a changeable message sign (CMS), Closed Circuit Television (CCTV), Ramp Metering Systems (RMS), Traffic Monitoring Systems (TMS), a communications hub building, and miscellaneous field hardware at different freeway locations as identified on the attached Location of Field Elements Map. This project will install a portion of the District 7 TCRMS and is proposed to be funded from the SHOPP Mobility Transportation Management Systems Program (Program Code 315) at an estimated cost of \$9,600.00.

#### II BACKGROUND

The Route 101 (Ventura Freeway) is a six to eight lane facility running in a north-south direction in this project. The freeway serves as a primary commuter route for vehicles traveling between Ventura and Santa Barbara Counties and Los Angeles County. It also serves as a primary commuter route between Southern California and California's Central and Northern Coasts.

The weekly work generated commuting patterns result in traffic congestion southbound in the AM peak hour and northbound in the PM peak hour. Also, weekend and holiday generated commuting patterns result in congestion as Route 101 serves tourist locations in Ventura and Santa Barbara Counties.

This project is the part in a series of TCRMS projects being implemented to provide Caltrans District 7, the ability to manage traffic operations along Route 101 in Ventura County. This project will provide an important link to in the TCRMS infrastructure by providing a regional communication link to the Traffic Management Center (TMC).

#### III NEED AND PURPOSE

The existing TCRMS consists of a detailed, leased telephone line communication network, one CMS, one CCTV site, and a TMS. There are no existing RMS. The purpose of this project is to provide a TCRMS in the Route 101 corridor. This project will replace the telephone line communication network with a fiber optic communications system and to upgrade and complete the TCRMS (see Location Map in attachments).

This project will meet the objectives of the Department of Transportation Mission, Vision, Goals, Principles 2000 by the installation of additional ITS field elements on Route 101 in Ventura County.

The typical existing (2001) Average Daily Traffic (ADT) and (2025) projected (ADT) on Route 101 are shown in the following table. Traffic volumes are expected to increase by an average of 15 percent (15%) and truck volumes are expected to double.

## Existing and Projected Average Daily Traffic (ADT)

Location	PM	ADT		% Truck		
		2001	2025	2001	2025	
Moorpark Road	4.0	178,000	205,000	4.0	9.0	
Wendy Drive	7.3	142,000	165,000	6.0	10.5	
Lewis Road (Route 34)	13.9	130,000	155,000	5.5	10.0	

Source: Office of Planning and Public Transportation

#### IV ALTERNATIVES

The "No-Build" Alternative was considered in developing and analyzing system alternatives, but was eliminated due to the existing operational problems being experienced on the project area freeway and the inability to accommodate traffic management activities without the proposed TCRMS elements. The current system of dedicated, leased telephone lines result in high initial capital cost and continuing maintenance problems for the State. Leased telephone lines do not have the capacity for transmission of real-time video, but only for compressed digital images at considerable expense to the State. Real-time video (compressed) has poor resolution quality and cannot be retransmitted to media and other agencies. The alternative methods of transmission would be either extremely costly, as with VSAT or through wireless communication, would have limited bandwidth, lack of ability to retransmit poor resolution quality, and difficulty in obtaining a license.

The "proposed project" alternative consists of a state-owned communications and TCRMS comprised of an optical fiber cable to accommodate the voice, data, and video requirements of the ITS. The elements of the TCRMS consist of CMS, CCTV cameras, ramp metering stations (RMS), traffic monitoring stations (TMS), weight-in-motion stations, and automatic irrigation control systems.

#### V SYSTEM PLANNING

The proposed project is identified as a Transportation Management Systems (TMS) project and as such is consistent with the plans, programs and goals of the Ventura County Transportation Commission (VCTC). It is the goal of the VCTC to incorporate the ITS infrastructure into programmed STIP projects along the Route 101 Freeway. This project is consistent with the Investment Level I Typed projects identified as part of the TOPS (Traffic Operations Strategies) planning process for the four southern districts (District 7, 8, 11, and 12).

There are three projects proposed to install a TCRMS along the Route 101 Freeway from Route 23, to the Santa Barbara County Line as shown in the following table:

#### **ROUTE 101 – ITS PROJECTS**

Project #	Project Limits	Length	Cost
24000K	Route 23 to Route 34	19.1 Km	\$ 9,600,000
174600	Route 34 to Route 126	21.4 Km	\$12,400,000
174600	Route 126 to Santa Barbara Co. Line	29.1 Km	\$ 5,200,000

A project is proposed to install a TCRMS from Route 27 in Los Angeles County to Route 23. The Project Report was approved on July 31, 2001.

#### VI HAZARDOUS MATERIAL/WASTE

There are no known existing waste sites within or immediately adjacent to the proposed project. A Preliminary Hazardous Site investigation will be performed prior to the design phase of this project.

#### VII TRAFFIC MANAGEMENT PLAN

The hours available for contractor's operations will be regulated to off-peak hours and detailed within the special provisions to minimize the impact on existing traffic flows. Special Provisions will regulate the contractor's operations in the event that ramp or lane closures are required ant the traveling public will be informed of the time and location where such construction will take place. The majority of the work will require shoulder closures and will not affect traffic flows. Therefore, no significant delay is expected as a result of the construction of this project.

#### VIII ENVIRONMENTAL CLEARANCE

The project is categorically exempt under Class I, Section 1510.1c of Caltrans Environmental Regulations. The project will not increase vehicle carrying capacity in the Route 101 corridor; it will only improve efficiency allowing the traffic to flow better and reduce emission.

#### IX FUNDING SCHEDULING

The project will be funded from the SHOPP Program in the fiscal year 2008-2009. It is part of the District 7 Master Plan and the type of work is consistent with the SHOPP Mobility 315 TMS Program.

The milestone schedule for this project includes a Begin Design date of September 2004 a PS&E date of November 2007, an RTL date of February 2009, a Contract Award date of June 2009, and a Project Completion date of July 2011.

#### X DISTRICT CONTACT

EDWARD KRAUSE, Project Engineer	CalNet 647-0270
(Project Delivery) Office of ITS Development	

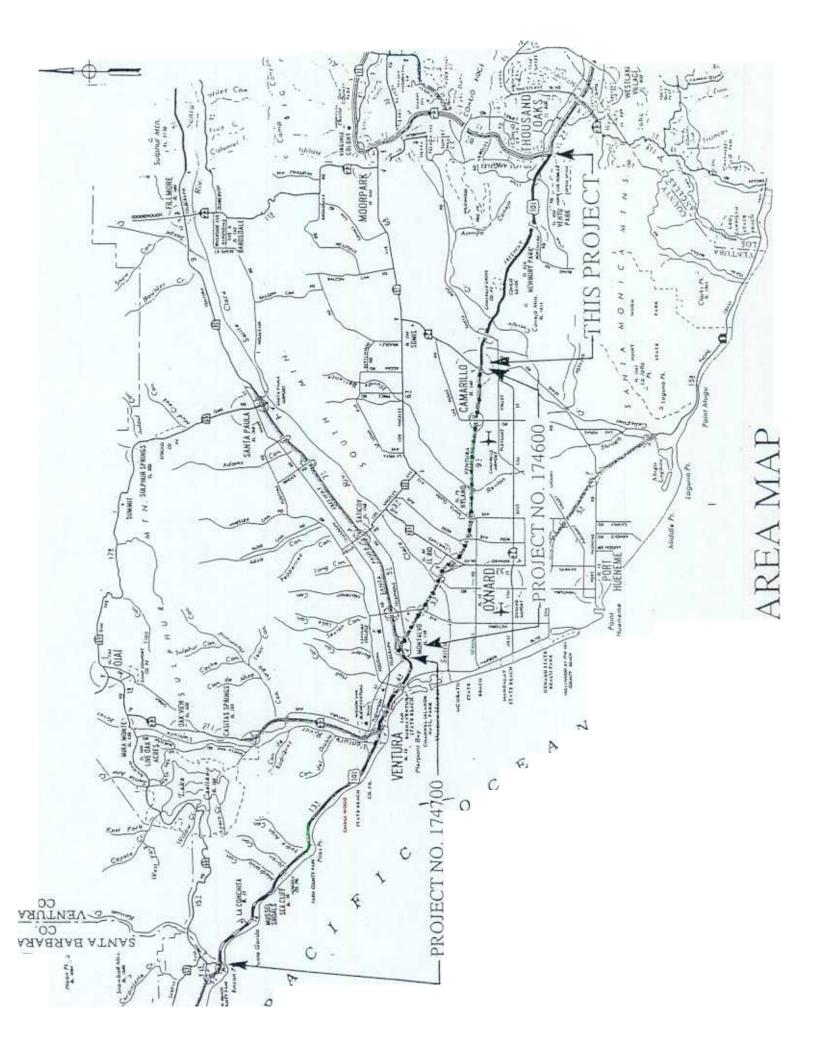
JACQUELINE C. TAN, Senior Design Engineer	CalNet 647-4698
Office of ITS Development	

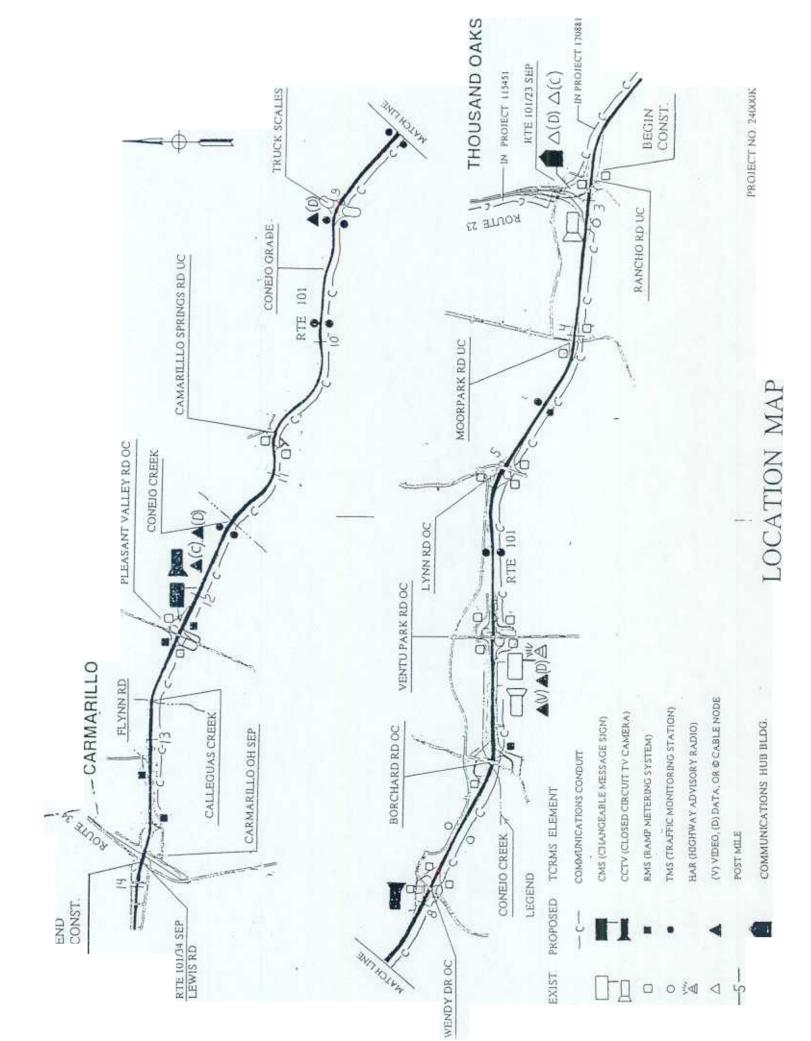
DAREK CHMIELEWSKI, Project Manager	CalNet 647-8485
Office of Project Management-South	

#### XI ATTACHMENTS

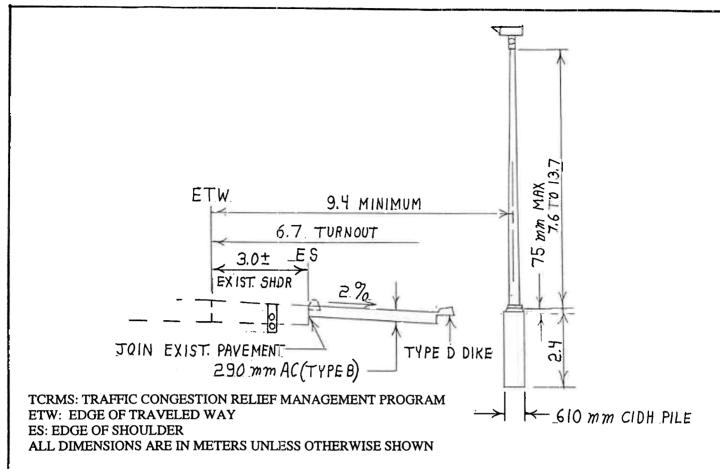
Area Map
 Location Map
 ITS Elements Cross-Section
 CCTV and CMS Location
 Cost Estimate
 Categorical Exemption
 R/W Data Sheet

Filename: PSR VEN-101 KP 3 5-22 6 - EK

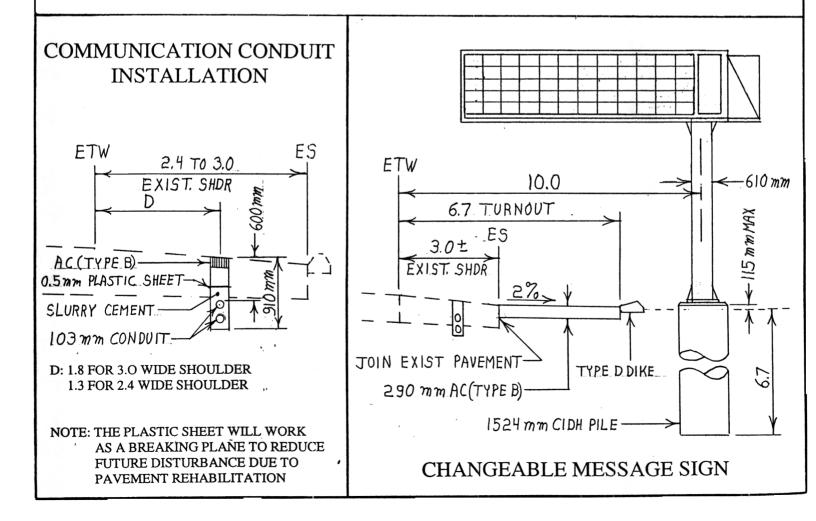




## **ICRMS ELEMENTS CROSS SECTIONS**



#### CLOSED CIRCUIT TELEVISION LOCATION



CCTV AND CMS LOCATION

#### PROJECT STUDY REPORT COST ESTIMATE SUMMARY



07-VEN-101 SHOPP Mobility TMS Program KP 3.5/22.5 (PM 3.0/13.8) EA 24000K PP No. 3306

Project Description:			
Limits	In Ventura County, on Ven 101 from Route 23 to		
	to Route 34 (Lewis Road) and NHD Communication HUB		
	and TMC		
EA/Program	24000K		
	Install CCTV & Communications System		
Improvement (Scope)			
Phase			
St	UMMARY OF PROJECT COST ESTIMATE		
	TOTAL ROADWAY ITEMS	\$9,506,000	
	TOTAL STRUCTURE ITEMS	\$100,000	
	-		
	SUBTOTAL CONSTRUCTION COSTS	\$9,606,000	
	TOTAL RIGHT OF WAY ITEMS (Cert. Date 3/1/02)	\$0	
	TOTAL PROJECT CAPITAL OUTLAY COST	\$9,600,000	
		1 .	
Reviewed by Distric	ct Program Manager Date	8/12/0	4
	In Burn on A	, (	
Approved	by Project Manager Date	03/12/	109

Phone No. (213) 897-8485

I.	<b>ROAD</b>	WAY	<b>ITEMS</b>
----	-------------	-----	--------------

Section 1 Earthwork Maintenance Turnout (1) Clearing & Grubbing Maintenance Turnout (2)	Quantity 2 1 24	Unit EA LS EA	Unit Price \$25,000 \$20,000 \$20,000	Item Cost   \$50,000   \$20,000   \$480,000	Section Cost\$550,000
Section 2 Pavement Structur	al Section				
Section 3 Drainage		'Subtotal	Pavement Struc	ctural Section	\$0
			Subto	otal Drainage	\$0

<sup>(1)</sup> MAINTENANCE TURNOUT AREA FOR CCTV CAMERA AND CMS LOCATIONS (INCLUDES MBGR, RETAINING WALL AND DIKE).

<sup>(2)</sup> MAINTENANCE TURNOUT AREA FOR RMS, TMS, AND NODE LOCATIONS.

Section 4 Specialty Items Irrigation Modification Highway Planting Water Pollution Control Hazardous Waste Mitigation (Aerially Deposited Lead Soil Resident Engineer Office Contractor's Lead Compliance Plan	Quantity  1 3 1 1 1 1	Unit LS EA LS LS LS LS	Unit Price \$40,000 \$3,000 \$100,000 \$100,000 \$220,000 \$5,000	\$40,000 \$9,000 \$100,000 \$100,000 \$220,000 \$5,000	Section Cost
			Subtotal S	pecialty Items	\$474,000
Section 5 Traffic Items Communication Conduit (3) CCTV Camera	17,400	M EA	\$160 \$45,000	\$2,784,000 \$90,000	
CCTV Camera Upgrade	2	EA	\$15,000	\$30,000	
TMS/RMS	11 •	EA	\$35,000	\$385,000	
Exist RMS/TMS Upgrade	20	EA_	\$10,000	\$200,000	
CMS	1	EA	\$200,000	\$200,000	
Cable Node	1	EA	\$15,000	\$15,000	
Video Node	1	EA	\$60,000	\$60,000	
Data Node	3	<u>EA</u>	\$55,000	\$165,000	
Traffic Signal Interface	11	EA	\$20,000	\$220,000	
Communications Hub	1	EA	\$500,000	\$500,000	
Misc. Electrical (4)	1	_LS_	\$200,000	\$200,000	
System Testing &	1	LS	\$50,000	\$50,000	
Documentation Traffic Management Plan		LS	\$250,000	\$250,000	
			Subtota	l Traffic Items	\$5,149,000
			TOTAL SECT	TIONS 1 thru 5	\$6,173,000

- (3) ESTIMATE INCLUDES CONDUITS, CABLES, PULL BOXES, SPLICE CLOSURES, INNERDUCTS, TRAINING, AND EQUIPMENT AT HUB.
- (4) INCLUDES PULL BOXES, POWER SERVICE, JACKED CONDUIT, ELECTRICAL WORK AT TMC, AND MAINTAIN EXISTING ELECTRICAL SYSTEM.

Section 6 Minor Items			Item Co	st Section Cost
Subtotal Sections 1 thru 5	\$6,173,000	x (10%)	\$617,30	0_
		т	OTAL MINOR ITEM	fS \$617,300
Section 7 Roadway Mobiliza Subtotal Sections 1 thru 5 Minor Items Sum	\$6,173,000 \$617,300 \$6,790,300	x (5%) =	= \$339,51	<u>5</u>
	Т	OTAL ROAD	WAY MOBILIZATIO	N \$339,515
Section 8 Roadway Addition Supplemental Work Subtotal Sections 1 thru 5 Minor Items Sum	\$6,173,000 \$617,300 \$6,790,300	x (10%)	= \$679,03	<u></u>
Contingencies Subtotal Sections 1 thru 5 Minor Items Sum	\$6,173,000 \$617,300 \$6,790,300	x (25%)	\$1,697,57	<u> 15</u>
		TOTAL RO	DADWAY ADDITIO	NS \$2,376,605
		-	L ROADWAY ITEN	
Estimate Prepared By	Ed Krause (Print Name)	Phone #	(213) 897-0270	DATE June 3, 2004
Estimate Checked By	Jackie Tan (Print Name)	Phone #	(213) 897-4698	DATEJune 3, 2004

II-STRUCTURES ITEMS		STRUCTURE		
Conduit Installation on Structure		\$100,000		
		SUBTOTAL STRU	JCTURES ITEMS	\$100,000
Railroad Related Costs	N/A	N/A	N/A	
		TOTAL STRI	UCTURES ITEMS	\$100,000
COMMENTS			USE	\$100,000
Estimate Prepared By Ed Kraus	se	Phone #	(213) 897-0270	

Ш.	RI	GHT OF WAY	ITEMS	ESCALATED VALUE		
	A.	•	ncluding excess lands, mainder(s) and Goodwill	VALUE		
	Β.	Utility Reloca	tion (State share)			
	C.	Relocation As	ssistance			
	D.	Clearance/Der	molition			
	E.	Title and Escr	row Fees			
			TOTAL RIGHT	OF WAY ITEMS (Escalated Value)		\$0
			Anticipated Date of Right of (Date to which V	of Way Certification alues are Escalated)		
	F.	Construction	Contract Work			
			Brief Description of Work			
			Right of Way Branch Cost E	Estimate for Work	Left spine and the spine and t	
CC	MI	MENTS:				
Est	tima	ate Prepared By	(Print Name)	Phone#	DATE	

## CATEGORICAL EXEMPTION CATEGORICAL EXCLUSION/PROGRAMMATIC CATEGORICAL EXCLUSION DETERMINATION FORM

	DETERMINATIO	NFORM	
O7-VEN-101 DistCoRte. (or Local Agency)	3.5/22.6 (3.0/13.8)	24000K	200503024
	K.P./K.P.(P.M./P.M.)	E.A. (State project)	CE Number
PROJECT DESCRIPTION: (Briefly	describe project, purpose, loca	tion, limits, right-of-way requiremer	nts, and activities involved.)
The proposed project is located on US-101 would include the installation of a Traffic Co fiber optic communication system, a Chang (RMS), Traffic Monitoring Systems (TMS), a involve minimal excavation ( <two a<="" meters)="" td=""><td>geable Message Signs (CMS and miscellaneous field hards</td><td>t System (TCHMS) which would ), Closed Circuit Television (CCTM)</td><td>consist of the installation o</td></two>	geable Message Signs (CMS and miscellaneous field hards	t System (TCHMS) which would ), Closed Circuit Television (CCTM)	consist of the installation o
CEQA COMPLIANCE (for State F	Projects only)		
Based on examination of this proposal, sup  If this project falls within exempt of critical concern where designated.  There will not be a significant cumplace, over time.  There is not a reasonable possibic circumstances.	class 3, 4, 5, 6 or 11, it does in the class of the class	not impact an environmental resc ally adopted pursuant to law. and successive projects of the sa	ource of hazardous or ame type in the same
<ul> <li>This project does not damage a s</li> <li>This project is not located on a sit</li> </ul>	cenic resource within an offic te included on any list compil	tially designated state scenic high	nway.
This project does not cause a sub-	ostantial adverse change in the	he significance of a historical reso	oz.5 ( Cortese List ). Durce.
CALTRANS CEQA DETERMINAT	ION ·		
Exempt by Statute (PRC 21080) Based or an examination of this proposal, s  Categorically Exempt. Class 1f, or C be seen with certainty that there is no possil 15061/b)(3/1)	General Rule exemption (Th	is project does not fall within an re a significant effect on the envir	evernt class but it can
Signature: Environmental Office Chief	Dâte	Signature: Project Manager	Date
NEPA COMPLIANCE (23 CFR 771.  Based on examination of this proposal, supposed on the control of this proposal of this project does not involve subset of the National Historic Preservation.  In nonattainment or maintenance plan and Transportation Improved This project is consistent with all Fenvironmental aspects of this action.	porting information, and the formation impact on the environmental controversy on environment impacts on properties. Act.  areas for Federal air quality in the program or is exempt for Federal, State, & local laws, rederal, state,	nent as defined by the NEPA.  nmental grounds.  protected by Section 4(f) of the E  standards: this project comes froi  rm regional conformity.	m a currently conforming
CALTRANS NEPA DETERMINAT	ION		
Based on an examination of this proposal, s determined that the project is a:	supporting information, and th	e statements above under "NEP.	A Compliance", it is
☑ Programmatic Categorical Exclusion ( project files, ﷺ the conditions of the Novemi	(PCE): Based on the evaluati	on of this project and supporting Categorical Exclusion have been	documentation in the met.
Categorical Exclusion (CE): For actions excluded from the requirement to orepare at FHWA/determination	s that do not individually or co	mulatively have a significant env	vironmental effect and are
	4	+Ci	4/4/04
Signature: Environmental Office Chief (for all State & Local CEs)	Date (PM: for a	Signature: Project Manager   State CEs / DLAE: for Local As	Date st.PCEs)
EHWA DETERMINATION (if applicable	le)		
Based on the evaluation of this project and properly classified as a Categorical Exclusion		etermined that the project meets	the criteria of and is
	N/A Signature: FHWA Trans	portation Engineer	Date
Additional information attached or reference	ced		

# CATEGORICAL EXEMPTION CATEGORICAL EXCLUSION/PROGRAMMATIC CATEGORICAL EXCLUSION DETERMINATION FORM CONTINUATION SHEET

## ) The following conditions for Cultural Resources shall apply:

• Should any cultural resources be encountered during construction, all work in the area of the discovery must stop until the on-site monitor can evaluate the nature and significance of the find.

## 2) The following conditions for Biological Resources shall apply:

- A pre-construction survey of the project limits should be conducted by the District Biologist no more than one week in advance of the start of construction for each project segment. Additionally, detailed plans showing the exact locations of the TCMRS should be provided to the District Biologist for review as soon as they are available for further study on the placement of project components.
- Removal of protected tree species observed along the project limits, such as oak species, should be avoided as much as practicable. Any unavoidable removal of protected tree species, such as oak trees, shall be replaced at a replacement ratio consistent with state or local tree protection policies.
- Clearing and grubbing of vegetation for the installation of CCTV cameras, CMS, maintenance pull-outs, or any other component occurring beyond the shoulder should be conducted outside of the bird-nesting season, which occurs between February 15<sup>th</sup> and September 1<sup>st</sup>. This measure is necessary to avoid affects to nesting birds, which are protected under the Federal Migratory Bird Treaty Act and California Department of Fish and Game Codes. If the clearing and grubbing of vegetation cannot be avoided during the nesting bird season, a nesting bird survey will be necessary within one week prior to the start of construction. The District Biologist should be consulted as soon as possible if clearing and grubbing cannot be avoided during the bird-nesting season to schedule surveys or discuss alternative avoidance measures.
- All applicable water quality Best Management Practices (BMPs) should be implemented when working over or adjacent to the drainages along the project limits to avoid affects on water quality. Discharges of fill, pavement cuttings, concrete or other construction debris into a drain inlet or creek would result in a violation of the Federal Clean Water Act.

TO Jaculine C Tan
ATTN Edward Krause
PHONE: 213-897-0270

SENIOR RW P&M

ROUTE: VEN-101
PM\_KM 3.0/13.8,3.5/22.5
EA 24000K

ALT

R/W DATA SHEET

Date of Data Sheet

WBS

REVISED

UPDATED

ID NO **1036** 

PROJ.\_DESC CCTV & Communications System

This cost estimate is pursuant to the following statements which are based on information provided by Jaculine C Tan.

This cost estimate is valid for the above scoping report only. This is an estimate only and not an appraisal. It may be based on worse case scenarios. The estimate is subject to change and revision.

The mapping did not provide sufficient nor adequate detail to determine the limits of thr Right of Way required and effects on the improvements.

The transportation facilities have not been sufficiently designed for our estimator to determine the damages to any of the remainder parcels affected by the project.

Residential displacement is not involved

Utility facilities or Utility Right of Way are not affected.

Railroad facilities or R.R. Right of Way are not affected.

Right of Way work will not be performed by Caltrans staff.

It is not known at this time whether there are any material borrow and/or disposal sites are required.

There are no potential relinquishments and/or abandonments.

There are potential hazardous waste parcels

Time constraints precluded a detailed cost estimate.

The time schedule provided by the requesting party allowed for a field inspection.

RW COST ESTIMATE

CURRENT VALUE

R/ w acq.(incl.contingency G.w-condem.-adm.s'tl.)Permits

NONE

NONE

NO RIGHT OF WAY

Clearance

NONE

NONE

RAP (cont rate.)

NONE

NONE

Escrow costs (cont rate.)

NONE

Utility relocation costs

NONE

**Total estimated cost** 

NONE

According to Edward Krause, no RW is required for this job.

ESCALATION RATE RW .07 ESCALATION RATE Utilities

**CERT.DATE 3/1/05** 

PARCEL COUNT

ROUTE VEN-101 PM\_KM 3.0/13.8,3.6/22.5

	TYPES API	PR.											EA 24000K	
A													ALT	
		-								POTENTIAL CLEARANCE	POTE	NTIAL.		
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С			NEEDED	TAKES	<u> </u>	SFR		0				wn at this		
D		FE	$\vdash$	FULL.	4					POTENTIAL				
F		EAS		PART		MULTI			CC	NDEMNATION PARCELS				
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Typi å ag Desi	es of Util. Fac Irmts, required cription	isements required cilities d	The Control of the Co		ts	Are Utility required	agreements		U	ONST. COMPLE TILITY ESCALA ESCALATE UTILITY CON COMPL	TION DATE  TION RATE  D VALUE TO STRUCTION BETION DATE	\$0	nated Costs	

DISCUSS TYPES OF AGREEMENTS AND RIGHTS REQUIRED FROM THE RAILROADS. ARE GRADE XING REQUIRING SERVICE CONTRACTS, OR GRADE SEPARATIONS REQUIRING CONSTRUCTION AND MAINTENANCE AGREEMENTS INVOLVED.

Right of Way Estimate prepared by	STEVE FLORES	<u>DATE</u> 1/17/05
Railroad Estimate prepared by	Bob Thorpe	2/7/05
Utilities Estimate prepared by	Butch Mateo	9/7/05

I have personally reviewed this R/W Data Sheet and all supporting information I certify that the probable highest and best use estimated values and assumptions are reasonable and proper subject to the limiting conditions set forth and I find this Data Sheet complete and current.

This Data Sheet is not to be signed by Chief unless accompanied by final scoping report(PR,PSR,PSSR) for review and/or signature.

CHIEF	

## ADDITIONAL UTILITIES

E CONTROL OF THE CONT	